

WHAT IS CLAIMED IS:

- 1 1. A safety clasp knife comprising:
 - 2 a handle composed of:
 - 3 a top cover having a first long hole; and
 - 4 a bottom cover securely engaged with the top cover and having a
 - 5 second long hole;
 - 6 a blade pivotal relative to and alternatively received in the handle, wherein the
 - 7 blade is sandwiched between the top cover and the bottom cover and having a through
 - 8 hole defined in a first distal end of the blade, a first limiting notch defined in a
 - 9 periphery defining the through hole and a second limiting notch defined in the
 - 10 periphery defining the through hole to be opposite to the first limiting notch; and
 - 11 a spring driven positioning rod extending through the first long hole, the
 - 12 through hole and the second long hole to be movable in the first and second long holes
 - 13 such that when the blade is to be fully extended relative to the handle and the first
 - 14 limiting notch is in communication with the first and second long holes, the positioning
 - 15 rod is received in the first limiting notch of the blade to fix the blade relative to the
 - 16 handle and when the blade is to be received in the handle and the second limiting notch
 - 17 is in communication with the first and second long holes, the positioning rod is
 - 18 received in the second limiting notch of the blade to fix the blade relative to the handle.
- 19 2. The safety clasp knife as claimed in claim 1 further comprising a limiting disk
- 20 received in the through hole of the blade and sandwiched between the top cover and the
- 21 bottom cover, the limiting disk having a cutout defined in a peripheral edge of the
- 22 limiting disk to alternatively align with the first limiting notch and the second limiting
- 23 notch such that when the positioning rod is moved away from the first limiting notch,

1 the positioning rod is received in the cutout and when the positioning rod is moved
2 away from the second limiting notch, the positioning rod is received in the cutout.

3 3. The safety clasp knife as claimed in claim 1 further comprising a top
4 positioning plate having a first aperture defined in a bottom face of the top positioning
5 plate to receive therein a first distal end of the positioning rod and a first groove defined
6 in the bottom face of the top positioning plate to receive therein a first spring and a
7 bottom positioning plate having a second aperture defined in a top face of the bottom
8 positioning plate to receive therein a second distal end of the positioning rod and a
9 second groove defined in the top face of the bottom positioning plate to receive therein
10 a second spring.

11 4. The safety clasp knife as claimed in claim 2 further comprising a top
12 positioning plate having a first aperture defined in a bottom face of the top positioning
13 plate to receive therein a first distal end of the positioning rod and a first groove defined
14 in the bottom face of the top positioning plate to receive therein a first spring and a
15 bottom positioning plate having a second aperture defined in a top face of the bottom
16 positioning plate to receive therein a second distal end of the positioning rod and a
17 second groove defined in the top face of the bottom positioning plate to receive therein
18 a second spring.

19 5. The safety clasp knife as claimed in claim 4, wherein a pivot rod is provided
20 to extend through the top cover, the limiting disk, the through hole of the blade, the
21 bottom cover and into the bottom positioning plate such that the first spring and the
22 second spring are sandwiched between the positioning rod and the pivot rod.

23 6. The safety clasp knife as claimed in claim 1 further comprising a first spacer
24 sandwiched between the top cover and the blade and having an extension hole in

1 communication with the through hole of the blade and a first indent defined in a
2 periphery defining the extension hole to be in communication with the first limiting
3 notch and a second indent defined in the periphery defining the extension hole to be
4 opposite to the first indent and in communication with the second limiting notch.

5 7. The safety clasp knife as claimed in claim 2 further comprising a first spacer
6 sandwiched between the top cover and the blade and having an extension hole in
7 communication with the through hole of the blade and a first indent defined in a
8 periphery defining the extension hole to be in communication with the first limiting
9 notch and a second indent defined in the periphery defining the extension hole to be
10 opposite to the first indent and in communication with the second limiting notch.

11 8. The safety clasp knife as claimed in claim 3 further comprising a first spacer
12 sandwiched between the top cover and the blade and having an extension hole in
13 communication with the through hole of the blade and a first indent defined in a
14 periphery defining the extension hole to be in communication with the first limiting
15 notch and a second indent defined in the periphery defining the extension hole to be
16 opposite to the first indent and in communication with the second limiting notch.

17 9. The safety clasp knife as claimed in claim 4 further comprising a first spacer
18 sandwiched between the top cover and the blade and having an extension hole in
19 communication with the through hole of the blade and a first indent defined in a
20 periphery defining the extension hole to be in communication with the first limiting
21 notch and a second indent defined in the periphery defining the extension hole to be
22 opposite to the first indent and in communication with the second limiting notch.

23 10. The safety clasp knife as claimed in claim 5 further comprising a first spacer
24 sandwiched between the top cover and the blade and having an extension hole in

1 communication with the through hole of the blade and a first indent defined in a
2 periphery defining the extension hole to be in communication with the first limiting
3 notch and a second indent defined in the periphery defining the extension hole to be
4 opposite to the first indent and in communication with the second limiting notch.

5 11. The safety clasp knife as claimed in claim 6 further comprising a second
6 spacer sandwiched between the bottom cover and the blade and having a second
7 extension hole in communication with the through hole of the blade, a third indent
8 defined in a periphery defining the second extension hole to be in communication with
9 the first limiting notch and a fourth indent defined in the periphery defining the second
10 extension hole to be in communication with the second limiting notch.

11 12. The safety clasp knife as claimed in claim 7 further comprising a second
12 spacer sandwiched between the bottom cover and the blade and having a second
13 extension hole in communication with the through hole of the blade, a third indent
14 defined in a periphery defining the second extension hole to be in communication with
15 the first limiting notch and a fourth indent defined in the periphery defining the second
16 extension hole to be in communication with the second limiting notch.

17 13. The safety clasp knife as claimed in claim 8 further comprising a second
18 spacer sandwiched between the bottom cover and the blade and having a second
19 extension hole in communication with the through hole of the blade, a third indent
20 defined in a periphery defining the second extension hole to be in communication with
21 the first limiting notch and a fourth indent defined in the periphery defining the second
22 extension hole to be in communication with the second limiting notch.

23 14. The safety clasp knife as claimed in claim 9 further comprising a second
24 spacer sandwiched between the bottom cover and the blade and having a second

1 extension hole in communication with the through hole of the blade, a third indent
2 defined in a periphery defining the second extension hole to be in communication with
3 the first limiting notch and a fourth indent defined in the periphery defining the second
4 extension hole to be in communication with the second limiting notch.

5 15. The safety clasp knife as claimed in claim 10 further comprising a second
6 spacer sandwiched between the bottom cover and the blade and having a second
7 extension hole in communication with the through hole of the blade, a third indent
8 defined in a periphery defining the second extension hole to be in communication with
9 the first limiting notch and a fourth indent defined in the periphery defining the second
10 extension hole to be in communication with the second limiting notch.